0600Dn--Chem--Source Oil 2010

****DATA SOURCE****
Data were compiled from surveys conducted in the Gulf of Mexico. Data were compiled from
NewFields Environmental Forensics Practice, LLC (Alpha) lab electronic data.   The following
SDGs (QC Batches) have been incorporated into the database: 1005074, 1006316, 1009311.
Data were also compiled from the following TDI-Brooks lab electronic data: 10-2414. The data
sets were for samples collected from Chem--Source Oil 2010.

****DATA COLLECTION PURPOSE****
Natural Resource Damage Assessment

****DATA USE QUALIFICATION****
Values for concentration and detection limit should be interpreted to 3 significant figures.
Values for reporting limits should be interpreted to 1 significant figure.

****STUDY****
This study includes the following data: Water chemistry and Oil/tar chemistry.

****STATION****
StationIDs are based on the Grid locations recorded in the NOAA Field Sampling Information
database, plus a sequential number used for each distinct latitude/longitude position reported.
Datum is assumed to be NAD83.

****SAMPLES AND REPLICATES****
The collection depth of water samples in the fields UDepth and LDepth are reported in meters.

The original SampleIDs reported by the lab from the Chain-of-Custody are stored in the
ExSampID field.

Samples were assigned to each unique location and depth, and field duplicates were coded with a
"D" in the SampleID and with a SampType of "FDUP." Subsequent field duplicates (splits) then
have a sequential numbering "D2, D3, etc."

The default labrep code was "1A." Lab duplicates (second analysis of same sample for same
analytical method) were assigned labrep "2A". Lab duplicates were identified as those samples
with a "D" suffix on the labID.

Several analytes are reported from 2 different analytical methods. The "preferred" result (usually
with lower detection limits) is given the default labrep code (e.g., "1A" or "2A"). The results
from the non-preferred analytical method have a "X" appended to the labrep code (e.g., "1AX"
or "2AX") The results from the non-preferred analytical method have a "X" appended to the
labrep code (e.g., "1AX" or "2AX"). The following chemcode/analytes were measured using
two methods:

Methods: PIANO Volatile Hydrocarbons by GC/MS | 8260M and B&B SOP1016 - Aliphatic Hydrocarbon Determination by Gas Chromatography/Flame Ionization Detection
AHCN_C09/ n-C9
AHCN_C10/ n-C10
AHCN_C11/ n-C11
AHCN_C12/ n-C12
AHCN_C13/ n-C13
The results for PIANO Volatile Hydrocarbons by GC/MS | 8260M were assigned labrep "1AX"

Methods: PIANO Volatile Hydrocarbons by GC/MS | 8260M and Total Saturated Hydrocarbons by GC/FID | 8015M
AHCN_C09/ n-Nonane (C9)
AHCN_C10/ n-Decane (C10)
AHCN_C11/ n-Undecane (C11)
AHCN_C12/ n-Dodecane (C12)
AHCN_C13/ n-Tridecane (C13)
The results for PIANO Volatile Hydrocarbons by GC/MS | 8260M were assigned labrep "1AX"

Methods: PIANO Volatile Hydrocarbons by GC/MS | 8260M and B&B SOP1016 - Aliphatic Hydrocarbon Determination by Gas Chromatography/Flame Ionization Detection
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AHCN_C10/ n-C10
AHCN_C11/ n-C11
AHCN_C12/ n-C12
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Methods: PIANO Volatile Hydrocarbons by GC/MS | 8260M and Total Saturated Hydrocarbons by GC/FID | 8015M
AHCN_C09/ n-Nonane (C9)
AHCN_C10/ n-Decane (C10)
AHCN_C11/ n-Undecane (C11)
AHCN_C12/ n-Dodecane (C12)
AHCN_C13/ n-Tridecane (C13)
The results for PIANO Volatile Hydrocarbons by GC/MS | 8260M were assigned labrep "1AX"

Methods: PIANO Volatile Hydrocarbons by GC/MS | 8260M and Alkylated Polynuclear Aromatic Hydrocarbons | 8270M
BTHIOPHNE/ Benzothiophene
METHNAP_1/ 1-Methylnaphthalene
METHNAP_2/ 2-Methylnaphthalene
NAPTHALENE/ Naphthalene
The results for PIANO Volatile Hydrocarbons by GC/MS | 8260M were assigned labrep "1AX"

Methods: PIANO Volatile Hydrocarbons by GC/MS | 8260M and B&B SOP1006 - Aromatic Hydrocarbon Determination by Selected Ion Monitoring Gas Chromatography/Mass
BTHIOPHNE/ Benzothiophene
METHNAP_1/ 1-Methylnaphthalene
METHNAP_2/ 2-Methylnaphthalene
NAPTHALENE/ Naphthalene
The results for PIANO Volatile Hydrocarbons by GC/MS | 8260M were assigned labrep "1AX"

Alpha Lab Analytical Methods:
Alkylated Polynuclear Aromatic Hydrocarbons | 8270M | SOP. 0-008 Rev. 6 (abbreviated as 8270 M - Alkylated PAHs)
PIANO Volatile Hydrocarbons by GC/MS | 8260M | SOP. 0-019 Rev. 2 (abbreviated as 8260 M - PIANO VolHC - GC/MS)
Total Saturated Hydrocarbons by GC/FID | 8015M | SOP. 0-003 Rev. 5 (abbreviated as 8015 M - Tot Sat. HC - GC/FID)

TDI Lab Analytical Methods:
B&B SOP1006 - Aromatic Hydrocarbon Determination by Selected Ion Monitoring Gas Chromatography/Mass (abbreviated as 8270 M B&B SOP1006 GC/MS)
B&B SOP1016 - Aliphatic Hydrocarbon Determination by Gas Chromatography/Flame Ionization Detection (abbreviated as 8015 B&B SOP1016 GC/FID)

****SUMMED PARAMETERS****
No sums were calculated and appended to the data set.

****QUALIFIERS****

Qualifiers recorded in the chemistry files represent the final data qualifiers provided by the data validation. Descriptions of the data qualifiers are included in the data dictionary.

****OTHER****
The original analyte in Alpha lab EDDs reported as Benzo(k)fluoranthene was identifed by the data validators to be a coelution of Benzo(k)fluoranthene and Benzo(j)fluoranthene. Therefore, the chemical data for the original Benzo(k)fluoranthene results have been assigned a chemical code for Benzo(j+k)fluoranthene.

The original analyte in Alpha lab EDDs reported as "Total Petroleum Hydrocarbons (C9-C44)" was proposed to need further distinction based on information acquired from the data validators. If the sample was not subjected to silica gel cleanup; it was suggested that the results represented "Total Extractable Matter (C9-C44)". If the sample was subjected to silica gel cleanup; it was suggested that the results represented "Total Extractable Hydrocarbon (C9-C44)". These chemical code/chemical name modifications made by the validators were used to report the original total petroleum hydrocarbon results in the final chemistry tables.